

AUTHOR: Roddatis, K.F., Cand.Tech.Sci. SOV/96-58-6-16/24

TITLE: Power resources and the production of electricity from atomic fuel (Energeticheskiye resursy i polucheniye elektroenergii za schet yadernogo goryuchego)

PERIODICAL: Teploenergetika, 1958. No.6., pp. 79-82 (USSR)

ABSTRACT: This is a review of a UNO statement on the subject of atomic energy for power generation. Data relating to numerous countries is given about fuel resources of different kinds; about reserves of thorium and uranium; about annual growth of electric power consumption and the expected proportion of atomic to other power. Atomic Power Stations with the largest sets will be in the USSR, England and France, and a large number of stations will be built as from 1960-61. There are 5 tables, 1 map, 5 literature references (3 Soviet and 2 German).

1. Electric power--Production 2. Atomic energy--Applications
3. Atomic power plants 4. Thorium--Availability 5. Uranium
--Availability

Card 1/1

RODDATIS, K.F., kand. tekhn. nauk.

Scientific and technical conference on boiler auxiliaries in power plants. Teploenergetika 5 no. 4:90-91 Ap '58. (MIRA 11:5)
(Electric power plants--Equipment and supplies)

T. G. C. A. T. 10/1

AUTHOR: Rodletis, E. F., Cand. Tech.Sc.

96-4-20/24

TITLE: A Scientific-Technical Conference on Auxiliary Equipment
for Power Station Boiler-houses. (Nauchno-tehnicheskoye
soveshchaniye po kotel'no-vspomogatel'nому oborudovaniyu
elektrostantsiy).

PERIODICAL: Elektrenergetika, 1958, . No.4, pp. 90-91 (USSR).

ABSTRACT: The second conference on auxiliary equipment for power
station boiler-houses was held in Moscow from the 17th -
20th December, 1957. It was convened by the Moscow
Division of the MTCEP and the Ministry of Electric Power
Stations. The object was to generalise operating
experience with boiler-house auxiliary equipment for large
and medium power stations and to develop measures to
increase the reliability and efficiency of the equipment;
also to reduce house-service power consumption, to
familiarise the conference participants with new designs
of Soviet and foreign auxiliary equipment, and to formulate
proposals for the development of new types of equipment.
The Conference was attended by 350 representatives of State
Planning organisations of various republics, councils of
national economy, power stations, engineering works,
research and design institutes, colleges and other

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A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses.

organisations. Nineteen reports were read. The Chief of the Technical Directorate of the Ministry of Power Stations A. M. Nekrasov, gave an opening address on the future development of thermal power stations, on the growth of unit outputs of sets, and on auxiliary equipment in boiler-houses. Cand.Tech.Sc. K. F. Roddatis analysed the rate of development of boiler sets and reviewed the present state of production of boiler-house auxiliary equipment, criticising its efficiency. Engineers G. N. Morezov and A. N. Kuranov reported on methods of reducing house-service power consumption. It was pointed out that a number of works, including the Venzhukovskiy Works still did not always produce reliable equipment. There were reports on the operation and design of fuel- and ash-handling systems. Dr.Tech.Sc. N. M. Milkaylov described new types of equipment, particularly wagon tipplers. Eng. P. M. Kuznetsov indicated the desirable features of ash-handling equipment for large power stations. Engineer N. I. Spiridonov analysed the mechanisation of

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96-4-20/24

A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses.

fuel-handling and ash-removal in medium-sized power stations. Reports by Cand.Tech.Sc. M. L. Kisell'gof and P. I. Kiselev, by Engineers Yu. G. Lazarev, I. M. Dianov, B. N. Muravkin and Cand.Tech.Sc. V. M. Maksimov all examined questions of fuel preparation.

Reports by Engineer V. V. Ryzhova and Cand.Tech.Sc. I.A. Rikitser considered the resistance of gas and air ducts in boiler installations and methods of regulating the output of draught fans.

Cand.Tech.Sc. V.B. Pakshver, reported foreign information on drives for feed pumps in large power stations.

The last group of reports dealt with fittings and with the removal of deposits from heating surfaces by devices operated from outside the furnace. The report of Engineer M. I. Imbritskiy and Cand.Tech.Sc. A. V. Ratner discussed damage to fittings and ways of enhancing their reliability by improved design. Reports on removal of ash and slag deposits were made by Engineers B. S. Fouin, V. I. Poluboyarinov and G. I. Luzhnov.

Card 3/4 The discussion of the reports showed that the manufacturing

A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-houses. 96-4-20/24

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are still not paying sufficient attention to auxiliary equipment. Most of the representatives of power stations mentioned defects therein. The Conference formally noted successes in the development of auxiliary equipment and a number of defects that require correction. Mention was made of the high cost of some kinds of equipment and the absence of catalogues. It was considered that many other organizations should have been represented at the Conference.

AVAILABLE: Library of Congress.

Card 4/4

RODDATIS, K.F., kand.tekhn.nauk; SHUTOV, V.I., inzh.

Development of boiler engineering during the last 40 years.
Teploenergetika 4 no.11:14-24 N '57. (MIRA 10:10)

1. Ministerstvo elektrostantsiy i Taganrogskiy kotel'nyy zavod.
(Boilers)

RODDATIS, K. F.

✓ 2565. DEVELOPMENT OF BOILER ENGINEERING IN THE PAST FORTY YEARS.
Roddatis, K.F. and Shatov, V.I. (Teploenergetika - Heat Pwr Engng, Moscow),
Nov. 1974, 1625. An historical review with drawings of large boilers:
one giving 260 tons/h of steam at 175 atm and 555°C with reheat; one with a
VTI vertical cyclone furnace for anthracite dust giving 230 tons/h of steam
at 100 atm and 510°C; a TP-80 boiler giving 420 tons/h of steam at 140 atm
and 570°C without reheat; a TP-90 boiler for anthracite dust, giving 500
tons/h of steam at 140 atm and 570°C with reheat to 570°C; A PK-12-68-SP
boiler for Chelyabinsk brown coal giving 300 tons/h of steam at 215 atm and
575°C; and a PK-33-83-SP boiler for Kuzbass and Chelyabinsk brown coal.
(L)

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RIVKATIS, K.F.; MICHAYLOVICH, A.M.

On T.H. Margulova's book "Arrangement and thermal calculations
for steam generating units." *Teploenergetika* 4 no.10:95-96 O '57.
(Boilers) (Margulova, T.H.)
(NEPA 10:9)

BRAUDE, I.Ye., inzh.; RODDATIS, K.F., kand.tekhn.nauk

Development of boiler building for heat-power plants in the U.S.S.R.
during the past 40 years. Elek.sta. 28 no.11:31-39 N '57.

(MIRA 10:11)

(Boilers)

MEL'NIKOV, N.A. (Moskva); RODDATIS, V.K. (Moskva)

Choice of voltage boosting transformers for nonuniform closed-loop electrical networks. Izv. AN SSSR. Energ. i transp. no.3:56-62 My-Je '65. (MIRA 18:12)

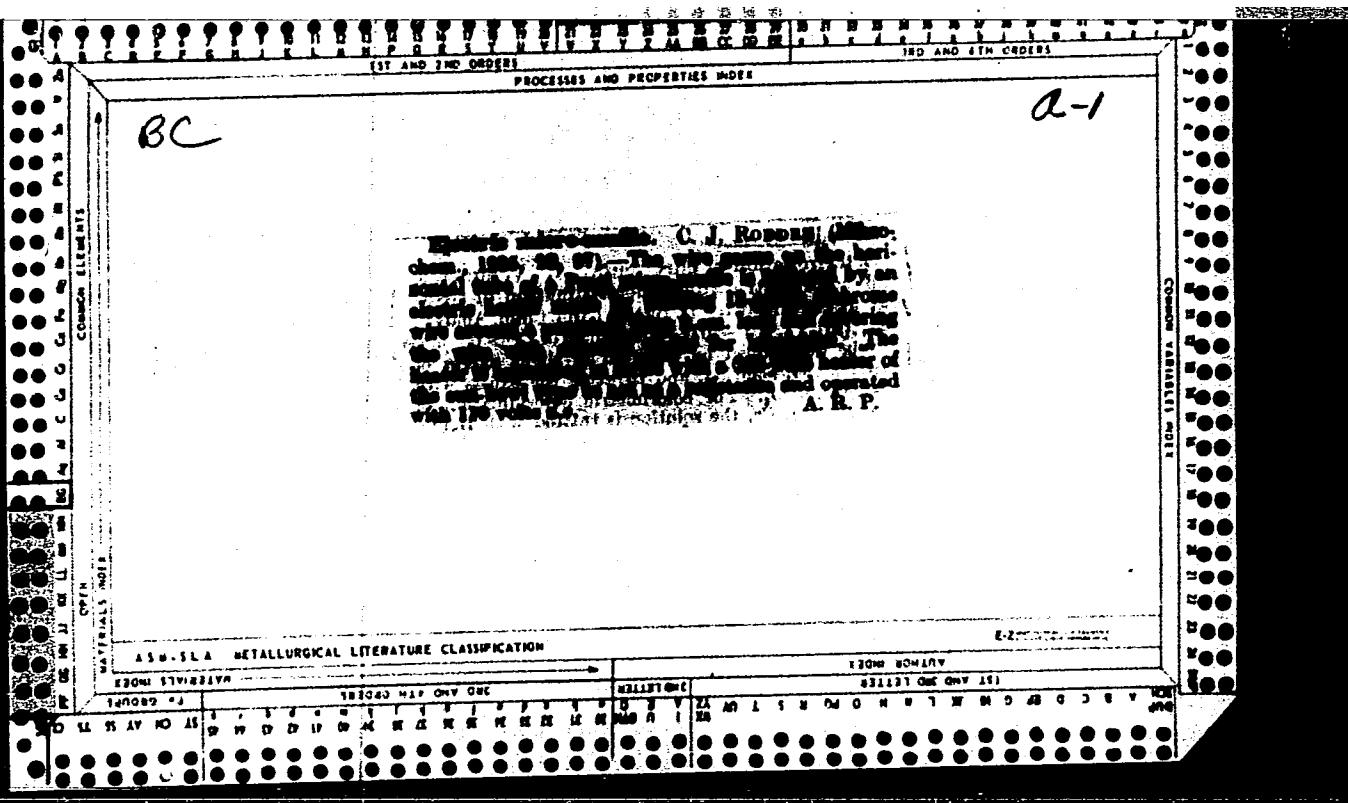
1. Submitted January 11, 1965.

RODDIS, L.H.

1633. COST OF SMALL NUCLEAR POWER PLANTS. Roddis, L.H. (Pap. 1 to
Sect. 83, Wld Pwr Conf., Belgrade, June 1957; title in Brennst. Wärmekr.,
Oct. 1957, vol. 9, 492).

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RMH



RODE, A., inzh.

Sprinkler systems in the United States. Pozh.delo 6 no.4:32 Ap '60.
(MIRA 13:11)

(United States--Fire sprinklers)

43307

S/084/62/000/012/001/002
D047/D112

12.11.90

AUTHOR: Rode, A., Deputy Chief

TITLE: Automobiles for airfields

PERIODICAL: Grazhdanskaya aviatsiya, no. 12, 1962, 22

TEXT: Shortcomings are listed of the ПМЗ-15 (PMZ-15) and АПП-25 (APP-25) airfield fire trucks, mounted on ЗИЛ-151 (ZIL-151) and ЗИЛ-157 (ZIL-157) chassis respectively, and three later versions are briefly described. The АП-30/157/-56A (AAP-30/157/-56A) fire truck, now in production, is mounted on a ЗИЛ-157K (ZIL-157K) chassis. It has better roadability, more powerful foam-throwing means, carries highly effective portable fire extinguishers, and is fitted with an electrically-driven disc saw for cutting open an aircraft fuselage. Its crew can work in special fireproof suits. The more recently designed "Dnepr" fire truck is mounted on a heavy ЯАЗ-214 (YaAZ-214) chassis. It has good roadability, is fitted with a portable projector, a winch, special hand tools for cutting open a fuselage, and hand foam guns for a water-bromoethyl emulsion. It also has a powerful winch, nozzles for ejecting mechanical air foam for cutting a path through to the seat of the fire, and a trailer-mounted foam gun, where

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S/084/62/000/012/001/002
D047/D112

Automobiles for airfields

nozzles and gun are hydraulically controlled and can be used in motion. Work on developing new fire trucks is being continued. On the recommendation of the Tsentral'nyy nauchno-issledovatel'skiy institut (Central Scientific Research Institute), a new fire truck, mounted on an УРАЛ-375 (URAL-375) chassis, will be developed in 1963. As regards amount of fire-extinguishing equipment and other features, it will be similar to the "Dnepr", but its operating characteristics will be more favorable. It will be the basic type of fire truck for modern airfields.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut (Central Scientific Research Institute)

Card 2/2

ISAYEV, M., inzh.; RODE, A., inzh.

Standardization of fire engines. Pozh. delo 9 no.6:25-26
Je '63. (MIRA 16:8)

RODE, A.

Motor vehicles for airports. Grazhd.av. 19 no.12:22 D '62.
(MIRA 16:2)
1. Zamestitel' nachal'nika TSentral'nogo nauchno-issledovatel'skogo instituta.
(Airports--Fires and fire prevention)

RODE, A., inzh.

Automatic fire extinction systems using gases. Pozh.delo 6
no.1:27-28 Ja '60. (MIRA 13:5)
(Fire extinction--Chemical systems)

RODE, A., inzh.

Automatic fire ladders. Pozh.delo 4 no.10:19-21 0 158.
(MIRA 11:11)
(Fire departments--Equipment and supplies)

RODE, A., inzh.

Fire at an American rocket plant. Pozh.delo 4 no.12:27 D '58.
(MIRA 11:12)

(United States--Factories--Fires and fire prevention)

RODE, A., inzh.

Fire prevention in chemical industries. Pozh. delo 4 no.5:27 My
'58. (MIRA 11:5)
(Chemical industries--Fires and fire prevention)

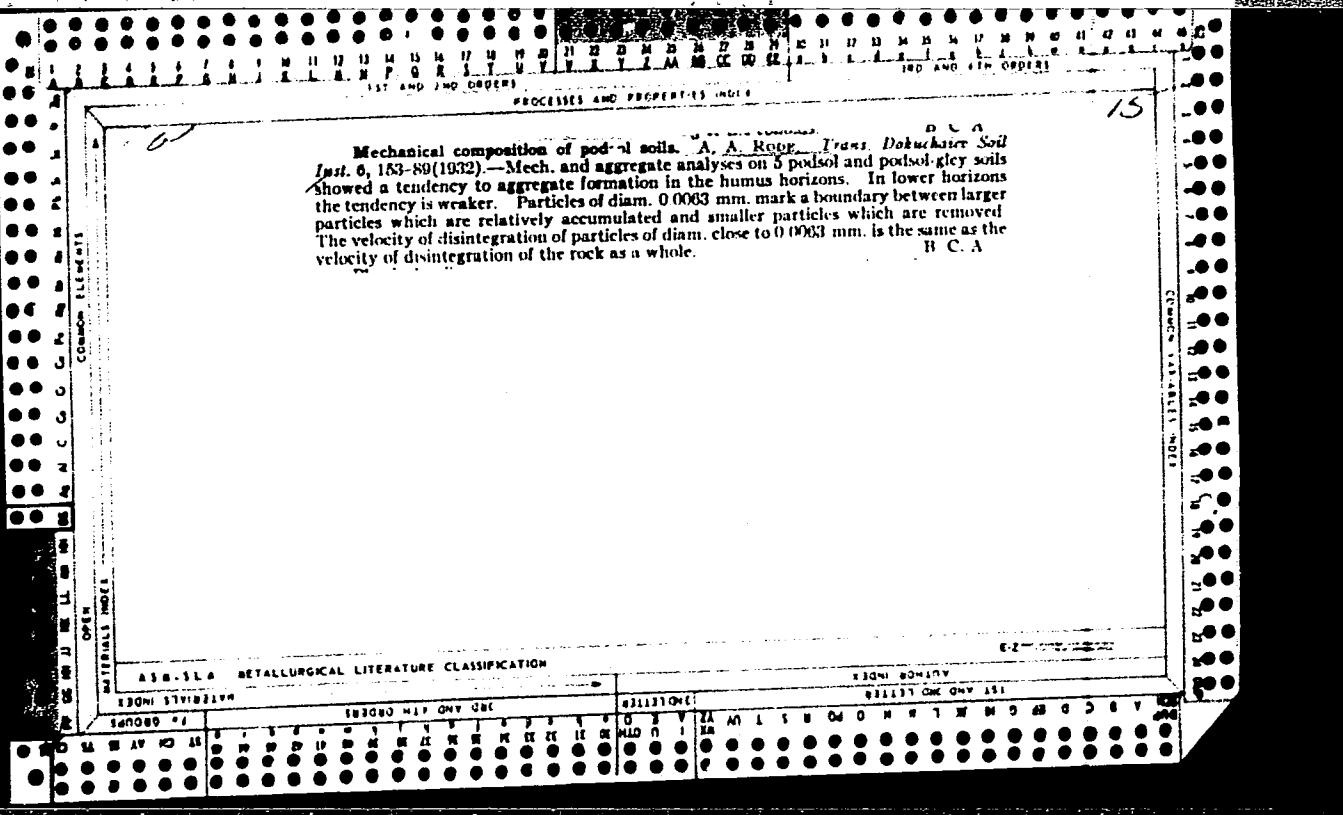
ROSE, A., Inventor

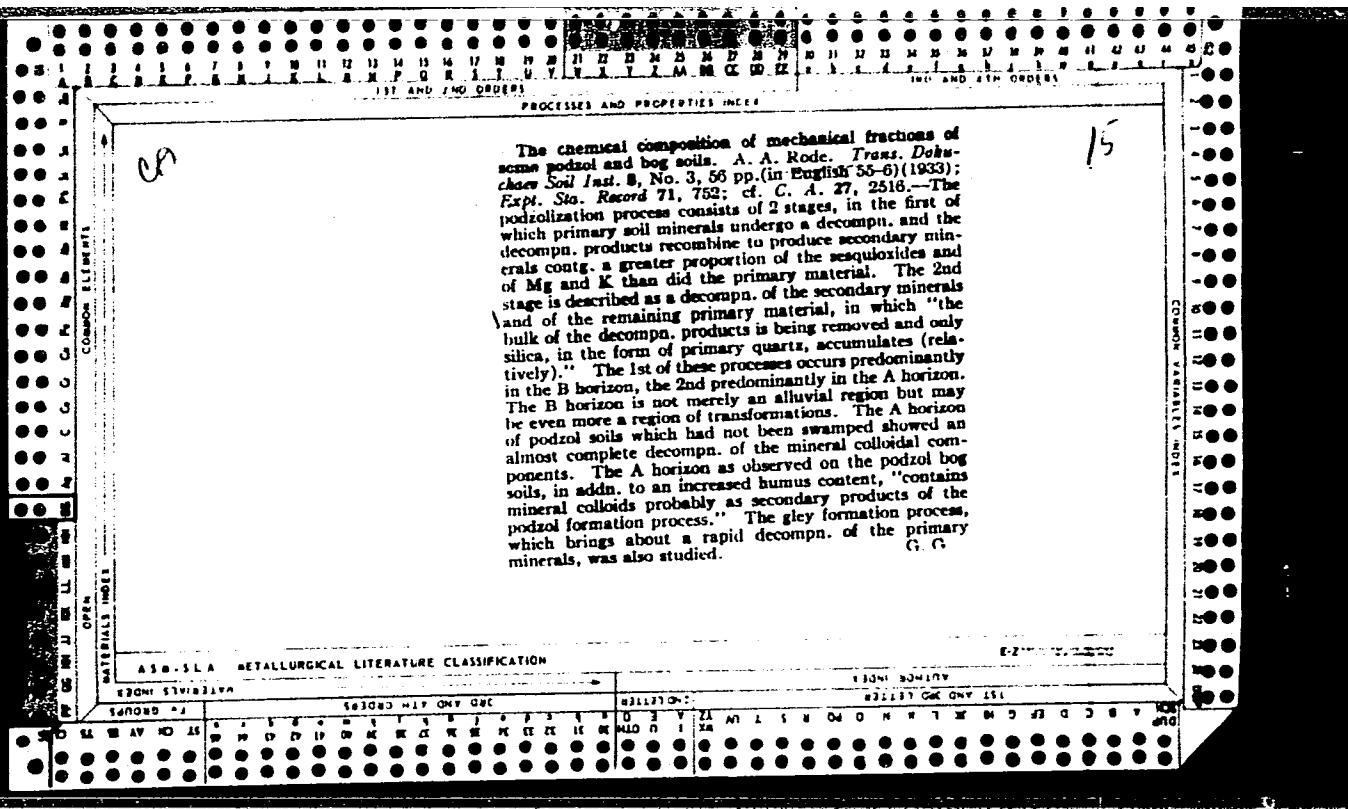
Modernizing the KM oxygen gas masks. Beschreibung 3 no. 9:16-17 S '57.
(MLN 10:9)
(Respirators)

RODE, A., inzhener.

"Fire prevention in the machinery industry" by M.L.Shevlev.
Reviewed by A.Rode. Pozh.delo 3 no.1:32 Ja '57. (MIRA 10:4)
(Industrial buildings--Tires and fire prevention)
(Shevlev, M.L.)

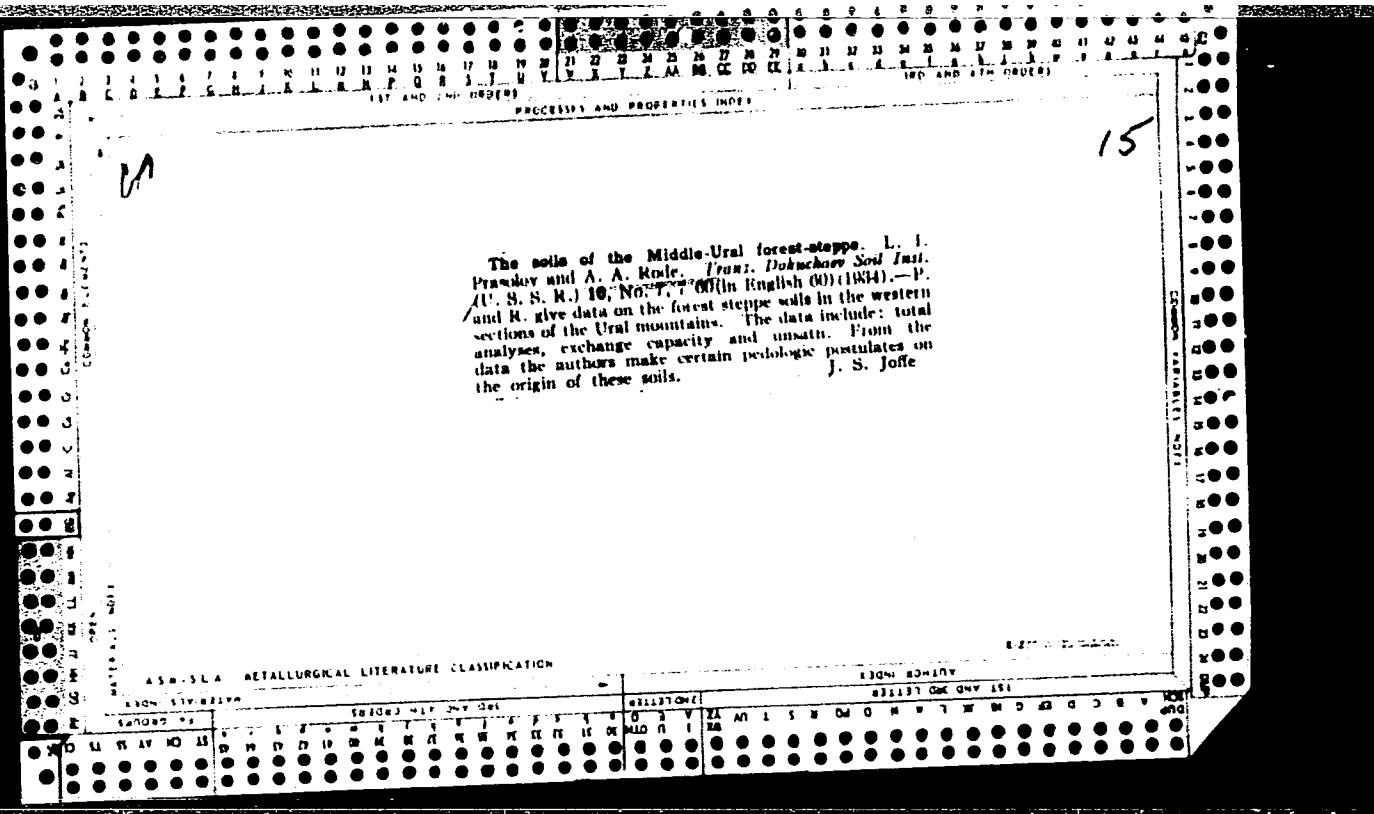
Mechanical composition of podzol soils. A. A. Roga, *Trans. Dokuchay Soil Inst.*, 6, 153-89 (1932).—Mech. and aggregate analyses on 5 podsol and podzol-gley soils showed a tendency to aggregate formation in the humus horizons. In lower horizons the tendency is weaker. Particles of diam. 0.0003 mm. mark a boundary between larger particles which are relatively accumulated and smaller particles which are removed. The velocity of disintegration of particles of diam. close to 0.0003 mm. is the same as the velocity of disintegration of the rock as a whole. B. C. A.

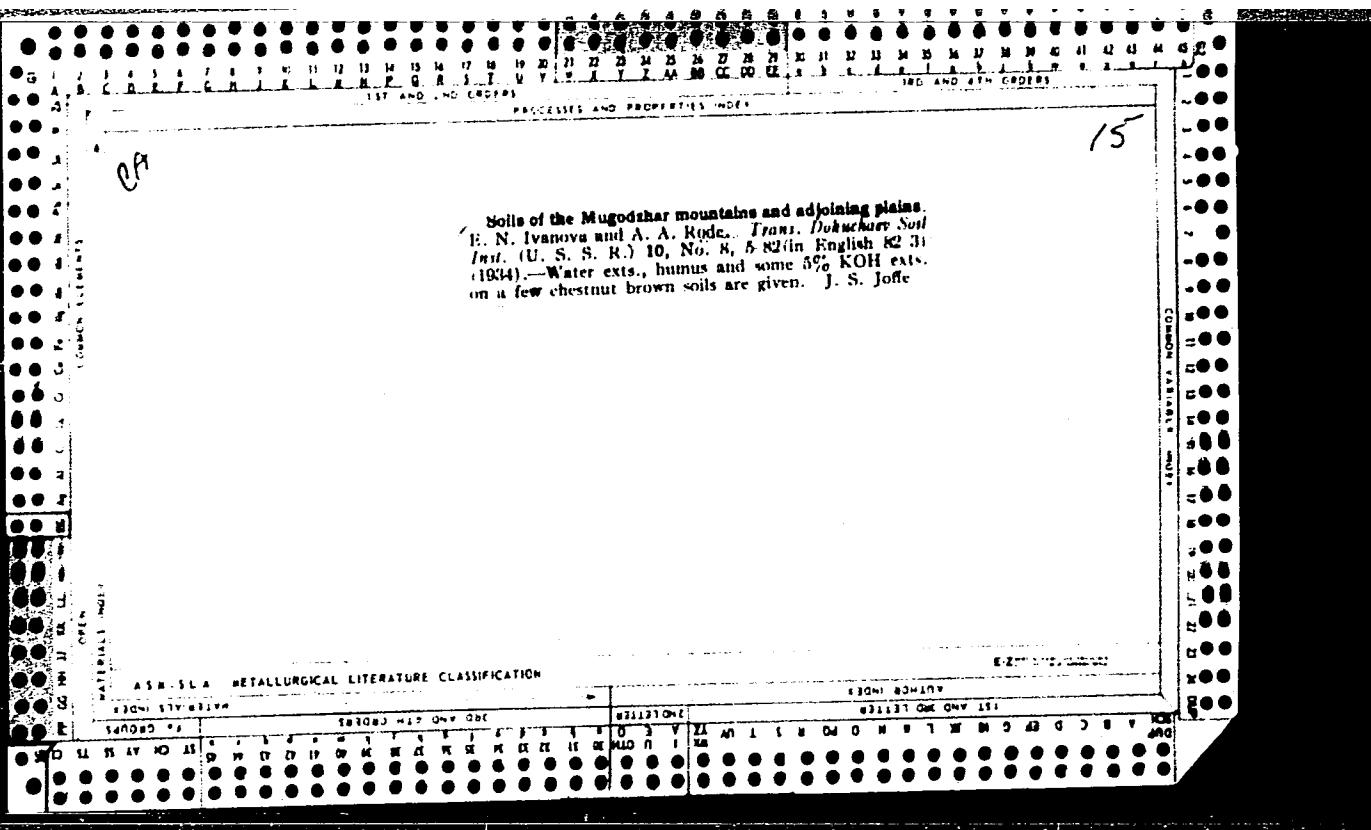




The soils of the elevated portion of Central Valdai.
O. A. Grabovskaya and A. A. Rode. *Trans. Dokuchaev
Soil Inst.* (U. S. S. R.) 10, No. 4, 31-105 (in English
105-6) (1934).--Data are given on total analyses, exchange
capacity, exchangeable ions and unsatn. on a no. of types
of podzols and podzolic soils. J. S. Joffe

A50 51A METALLURGICAL LITERATURE CLASSIFICATION



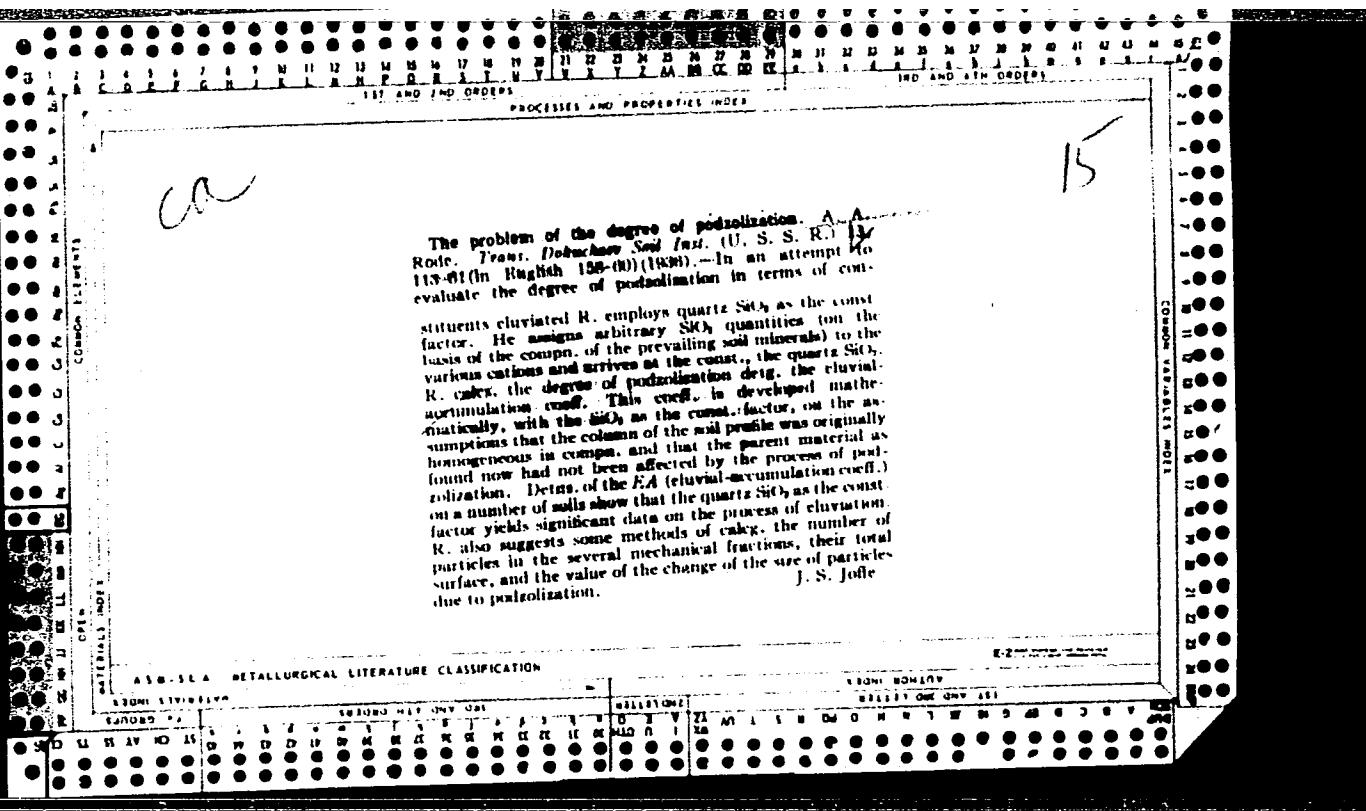


66

Degree of [solid] penetration. A. A. Ross (General and Geogr. of Soils, Dokuchayev Soil Inst., 1920, No. 71).—Horizons in penitentiary soils can be designated by the pluvial-accumulative coefficient, calculated on the assumption that quartz is not removed in leaching. Theoretical discussion on the no. of particles per 100 g. and total surface is included. A. M.

A.M

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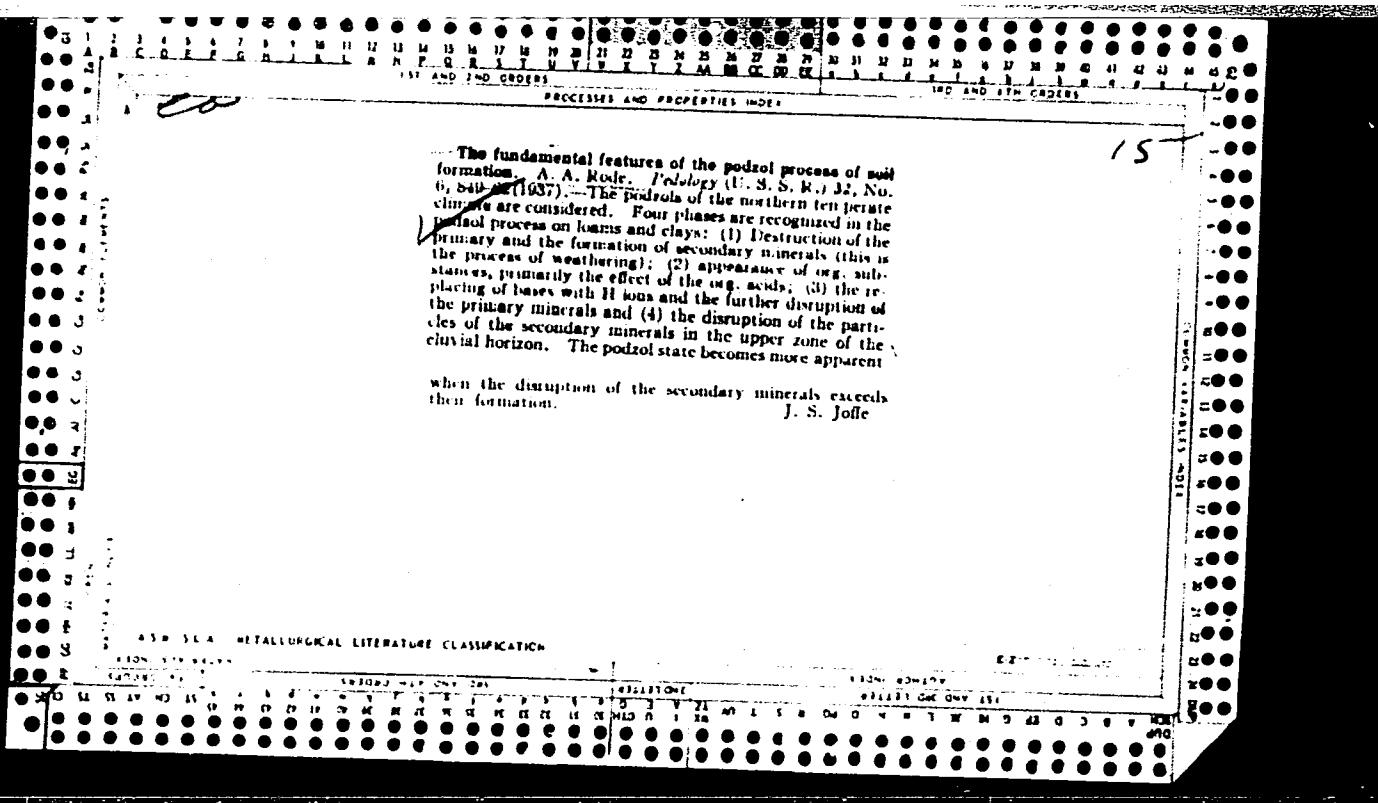


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Soviet Geography. Leningrad: Sovetskaya Nauka, 1937; 4th ed.
SSSR, 1937; 4th ed.

220: "Inclairs."

See: 23, Soviet Geography, Part I, 1951 incl.



The dispersion of the solid phase of the soil and the
chemical and mineralogical composition of the component
parts. A. A. Rode. Pedology (U.S.S.R.) No. 2, 181
pp. in English (1970-1980). A comprehensive review
and critical analysis.

PROCESSED AND PREPARED BY

Colorimetric determination of aluminum. A. Rode. *Problemy Sovet. Pochvovedeniya* 1938, No. 6, 63-66; *Khim. Referat. Zhur.* 2, No. 2, 73 (1939).—R. modified the oxine method of the colorimetric detn. of Al for the investigation of soil solns. and of their Al content. The difficulties arising from the presence of Fe were overcome by changing Fe^{+++} to $\text{Fe}(\text{CNS})_4$ and removing it by shaking with a mixt. of ether with Am alc. Take 3-7 cc. of the soln. contg 50-400 γ of Al_2O_3 , acidify with 2-3 drops of concd. HCl, add 1 cc. of a 10% soln. of NH_4CNS and 6 cc. of a mixt. of ether with Am alc. (2:5). Shake well for 1 min., allow to stand for 2-3 min., and remove the colored liquid with a pipet. Repeat the extn. with the mixt. of ether with Am alc. until a colorless liquid is obtained (usually 3-4 extns. are sufficient). Decomp. the excess NH_4CNS and org. substances by heating with 2 cc. of concd. HNO_3 . Proceed as in the ptn. of Al by the oxine method. Dissolve the Al hydroxy quinolate in a mixt. of ether with HCl and color the soln. by treating it with 1 cc. of a soln. of sulfanilic acid, 1 cc. of a NaNO_3 soln. and 10 cc. of a 4 N NaOH soln. Compare the colored soln. immediately with the standard.

W. R. Henn

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

STANDARD SUBJECT

SEARCHED DATE ON FILE

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PROCESSING AND PREPARATION OF
THE FORMATION OF PODZOL SOILS A. A. Rode, Pocher
S. S. N. R., Akad. Nauk S. S. S. R., Tichenskii Inst. im.
Dokuchaeva, 1, 137-83(1939). Khim. Referat. Zhur.
1939, No. 10, 56. Fe and Mg are removed most from
the upper horizons. SiO_4 and Al_2O_3 have always similar
alluvial-accumulative coeffs. and the alluvial-accumula-
tive coeffs. are differentiated the more the coarser the
min. compn. of the soil. CaO and NaO are also re-
moved from the illuvial horizons. All other oxides
(Al_2O_3 , nearly always SiO_4 , K_2O , MgO) and very often
 FeO can accumulate in them. The upper alluvial horizon
is characterized by an intensive and more or less uni-
form removal of all oxides. In the 1st transient horizon
the degree of the removal of the oxides decreases rapidly
with depth. In the 2nd transient horizon the degree of
removal decreases to zero in the proximity of the mother
rocks. The compn. of the colloidal fraction of the soil
changes in the various horizons much less than the compn.
of the soils as a whole. The capacity for absorption of
cations in the upper horizon is close to that of the mother
rock, is considerably lower in the alluvial and the illuvial
horizons, and increases downward in the profile. In the
upper horizon a considerable percentage in the compn.
of the absorbed cations consists of H ion, which is a most
definite sign of the podzol soils. The abs. content of
absorbed Ca and Mg in the upper horizon is higher than in
the alluvial horizon, but the relative value in the upper-
most horizon is in most cases at a min. This fact points
to the impoverishment of the upper horizon in absorbed
bases. The content of the water-sol. substances in podzol
soils is very small. W. R. Henn

ENCLOSURE AND PREVIOUS EDITIONS

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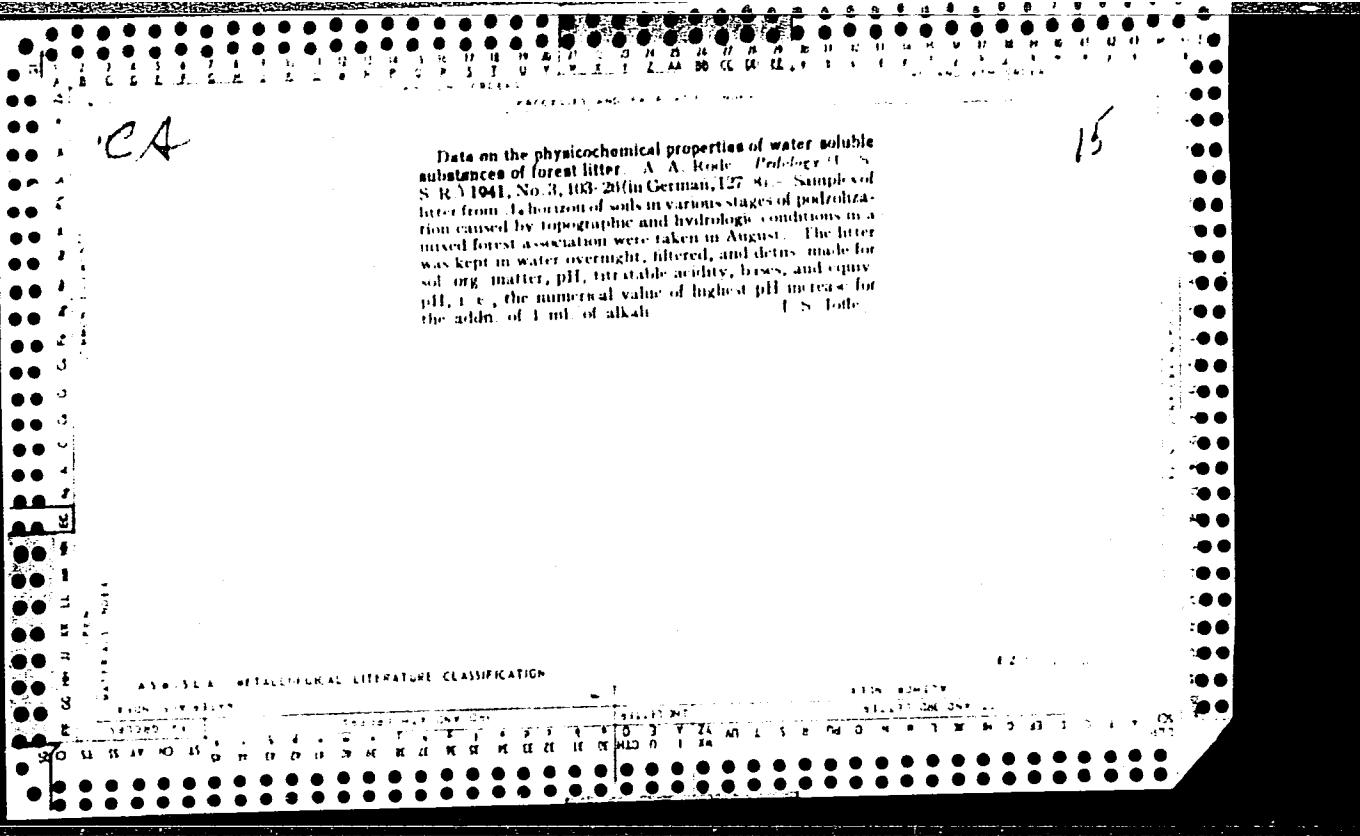
The sandy soils of the Kama River terraces. A. P. Rokh and I. D. Sedietskii. *Drevy, Podzoliz, Sov. Zem.* U. S. S. R. 19, No. 2, St. 139 in English, 110, 1 (1939).

Three sandy soil podzol profiles of 3 different river terraces were fractionated by the Sabanin method and the chem. compn. of each fraction was recorded and interpreted. A new mineral isolated from the 0.001 mm. fraction was named "podzolite" and described. The x-ray data and differential thermal analysis curves show that this mineral is not similar to any of the minerals known. The compn. of podzolite is $(\text{Mg}, \text{K})_2\text{O} \cdot \text{Al}_2\text{O}_5 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$.

I. S. Jobb

ASME SLA - METALLURGICAL LITERATURE CLASSIFICATION

EZ-10-221



CLASSIFIED AND PROPRIETARY AREA

Loess formation. A. A. Rude. *Pedology* (U.S.S.R.) 1942, No. 9-10, 10-24 (English summary). Data on the mech. and chem. analyses of a loess-like profile in the steppe region of Kursk are presented. They are compared with data of other deposits from the northern and northwestern parts of European Russia and Finland. A review of the data shows that the loess loam is a product of the silicate type of weathering. It is richer in SiO_2 , poorer in R_2O (especially Al_2O_3) and bases, especially CaO than the materials of the other regions. It is pointed out that the Ganssen hypothesis (cf. Ganssen, C.A. 19, 3449) suggesting a special type of hydration weathering is untenable. The original deposits of glacial origin become enriched with alk. earth bases, mostly CaO , in the process of weathering. This gives rise to loess formation.

J. S. Joffe

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CLASSIFIED

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1942 SEP 11 1944

EZ-10-4449

CA

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The probable role of plants in the podzol process of soil formation. A. A. Rode. *Pedology* (U. S. S. R.) 1944, No. 4-5, 159-79 (in English, 179).—R. tries to show that the exchange H of the roots plays an important part in the process of podzolization. It is claimed that this portion of H enters the colloid particle and is replaced with difficulty. Because of that the H causes the disruption of the complex. J. S. Joffe

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

RODE, A.A., prof., etv. red.

[Frozen grounds and their regime] Merzlotnye pochvy i ikh
rezhim. Moskva, Nauka, 1964. 157 p. (MIRA 18:3)

1. Vsesoyuznoye obshchestvo pochvovedov.

BALASHEV, L.L., prof.; GRIGOR'YEV, N.G., kand. biol. nauk;
ZHURBITSKIY, Z.I., prof.; PETERBURGSKIY, A.V., prof.;
FCPOV, P.V., kand. sel'khoz. nauk; RADKEVICH, F.Ye., prof.;
SOKOLOV, A.V.; TURCHIN, F.V., prof.; SHKONDE, E.I., kand.,
sel'khoz. nauk; SHTERNBERG, M.B., kand. biol. nauk;
VOL'FKOVICH, S.I., akademik, red.; KORNEYEV, N.Ye., kand.
veter. nauk, red.; NAYDIN, P.G., prof., red.; PLESHKOV, B.P.,
kand. sel'khoz. nauk, red.; POPOV, I.S., akademik, red.;
ROMASHKEVICH, I.F., kand. sel'khoz. nauk, red.; RODE, A.A.,
prof., red.; ROZOV, N.N., prof., red. FATUYEV, M.R., inzh.,
red.

[Chemicalization of agriculture; scientific and technical
dictionary handbook] Khimizatsiya sel'skogo khoziaistva;
nauchno-tehnicheskii slovar'-spravochnik. Moskva, Nauka,
1964. 398 p. (MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Sokolov). 2. Vsesoyuznaya
akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for
Popov)

RODE, A.A., prof., otv. red.

[Recent developments in the theory of the podzolization and solodization of soils] Novoe v teorii opodzolivaniia i osolodenii pochv. Moskva, Nauka, 1964. 95 p. (MIRA 18;3)

1. Vsesoyuznoye obshchestvo pochvovedov.

ROPE, A. A. 600

USSR

"The Process of Soil Formation and the Evolution of Soils"

Pochvovedeniye, No 8, 1946

REB., R. A.

REBS, A. ...

Rechvevirovaniye protsesa i evoliutsiiia pochv.

Moscow, Geografija, 1947;

Bibliography: p. 136-141.

CC: LOC: S591.R6456

SC: LC, Soviet Geography, part 1, 1951, Uncl.

The determination of small quantities of silica acid in natural solutions. A. A. Hinde. *Polymer* (1953) 4, 1947, No. 4, 210-217. H. describes a modification of the Ajex method for detg. small quantities of SiO_2 . To eliminate the solv. of the glass flasks for SiO_2 they are treated with NaOH. This treatment gives a uniform SiO_2 soln., and a correction is introduced. For org. matter coloration R uses a standard soln mixed with the unknown. The procedure is described in detail and equations are presented for dedg. the results obtained.

7

RODE, A. A.

40T100 USSR/Soil Science
Geography
"Academician L. I. Prasolov's Soil Map of the
World," A. A. Rode, 2 pp

"Pochvovedeniye" No 8

Aug 1947

Describes a soil map of the world published in 1937
in the Greater Soviet World Atlas. It is on a scale
of 1:50,000,000. It also describes some of the
other work which Prasolov has done to supplement
this map, among these works the most important are:
nomenclature and basic genetic classification of soil
an article discussing the world soil map; geography
and distribution of the types of soil; types of soil

LC

40T100 USSR/Soil Science (Contd) Aug 1947

In the various countries of the world. This last
article appeared in "Pochvovedeniye" No 2, 1946.

LC

40T100

RODE, A. A.

"Soil Forming Processes and the Evolution of Soils," Изв. в-с. географ. обшч.,
80, No.2, 1948

RODE, A. A.

"Review of S.I.Dolgov's Book 'Study of the Mobility of Soil Moisture and Its Accessibility to Plants,'" Pochvovedeniye, No.8, 1949

CH

13-

9 Cycle of soil-subsoil waters of podzolic, podzolic-marshy, and marshy soils. A. A. Role. *Trudy Pochvennogo Inst. im. V. V. Dokuchaeva* 32, 5-73 (1951).—A discussion is given of field results of a study of the water cycle.
M. Hirsch

CA

13

Nature of the forces retaining "capillary suspended" moisture in soil. A. A. Rode, *Trudy Poverenogo Inst. im V. V. Dokucharya* 32, 397-406 (1950).—The term "capillary suspended" includes unrelated phenomena. In sandy soils as well as in the interbases of subsoil-air and fine-grained subsoil-large-grained subsoil, water is held primarily by capillary forces and is thus correctly called "capillary suspended." In loamy and clayey soils and sub-soils water is held by membrane pressure and should therefore be referred to as "membrane suspended." In all cases part of the water is held by mol. forces and is therefore combined water. M. Hirsch

RODE, A. A.

Pochvennaya vlagá (Soil moisture) Moskva, Izd-vo Akademii Nauk SSSR, 1952.

454 p. diagrs., graphs, tables.

"Literatura": p. L1.6- (455)

At head of title: Akademiya Nauk SSSR.

Pochvennyy Institut.

SO : N/5
632.89
.R6

ZORIN, A. A.

Windbreaks, shelterbelts, etc.

Research of the Dzhanybek Station of the (Academy of Sciences) Comprehensive Expedition on problems of shelterbelt silviculture. Pochvovedenie no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

RODE, A.A.

Origin of microrelief of the Caspian Depression. Vop.geog. vol.33:
249-260 '53. (MLRA 7:3)

(Caspian Depression--Physical geography)
(Physical geography--Caspian Depression)

RODE, A.A., professor.

A useful work on forest hydrology ("The hydrological role of pine forests on sandy soils." A.A.Molchanov. Reviewed by A.A.Rode). Priroda 41 no.7: 119-120 Jl '59. (MILRA 6:6)

(Molchanov, A.A.) (Forest influences)

Rode, A. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Rode, A. I.	"Soil Moisture"	Institute of Soils imani V. V. Tchuchajev, Academy of Sciences USSR

SO: W-30604, 7 July 1954

Rode, A. A.

The role of forest in soil formation. A. A. Rode. *Pock-
wedenie* 1954, No. 5, 50-62.—Data are presented on the
exchangeable Ca, Mg, and H in soils under coniferous and
deciduous forests. Greater losses of Ca and Mg in the co-
niferous soils are shown. J. S. Joffe.

RODE, A.A.

ZONN, S.V., professor.

Interaction of soil and water ("Soil moisture." A.A.Rode.
Reviewed by S.V.Zonn). Priroda 43 no.8:121-122 Ag '54.(MLRA 7:8)
(Soil moisture) (Rode, A.A.)

Reznik, Aleksay Arinoyevich

L/5
632.89
.R61

Pochvovedeniye (Soil science) Noshva, Gosleskymizdat, 1955.
524 p. illus., diagrs., maps, tables.
Bibliography: p. 511-516

Some data on the mineral composition of siliceous sprinkling in forest steppe soils. A. A. Rode and I. I. Feofarova. *Pochvovedenie* 1955, No. 9, 58-60. The siliceous specks of a forest steppe soil were sepd. from the soil mass by scraping them with a sharp rod. Analysis of this material in comparison with that of the soil shows a concn. of SiO₂ in the specks or siliceous sprinkling, varying, resp., from 49 to 67% in the specks and from 39 to 48% in the soil. The feldspars (primarily orthoclase with some plagioclase) vary in the soil from 7 to 11% and in the specks from 11 to 14%. It is suggested that the mass of the specks represents the same material as that of the soil. However, the specks have lost their humus materials and clay aggregates. L.S. Joffe.

AG

(1)

Rode, A.A.

USCR/ Agriculture--Soil utilization

Card 1/1 Pub. 86--9/39

Authors : Rode, A. A., Prof.

Title : Experiment in the utilization of virgin soils in the semidesert
lowlands along the Caspian Sea

Periodical : Priroda 44/1, 60--66, Jan 1955

Abstract : A description is given of the topography, climate and vegetation of
the region lying east of the Caspian Sea, where the vegetation is
kept to a minimum by the fact that the months of sufficient warmth
are the ones when the relative moisture of the air is lowest. Detailed
exploration of the area, however, shows that the quality of the soil
varies in spotted fashion, there being places where, with devices for
conserving the moisture, such as barriers formed of rows of bushes for
catching the snow, the land can be made to produce. Graph, map,
illustrations.

Institution :

Submitted :

RODE, A. A., SKRYNNIKOVA, I. N. and AFANAS'YEVA, Ye. A.

"The Study of Contemporary Processes of Soil Formation," Sixth
Congress on Soil Science, Paris, 1956

Translation U-3053994

RODE, A. A.

"The Water Economy of Soils," a paper presented at the 6th International Soil Science Congress, Paris, 28 Aug to 8 Sep 56.

Library Branch #5

"Classification and Properties of the Forms of Water in Soils," same as above.

RODE, A.A.

Water relations of soils [with French summary in insert]. Pochvovedenie
(MIRA 9:9)
no.4:1-23 Ap '56.

1. Pochvennyy institut imeni V.V. Dokuchayeva Akademii nauk SSSR.
(Soil moisture)

14-57-7-14959

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 124 (USSR)

AUTHORS: Rode, A. A., Fedorovskiy, D. V.

TITLE: Data on the Thick Chernozems of the Kursk Regional
Experimental Station and the Change in Their Proper-
ties Due to Irrigation (Neskol'ko dannykh o moshchnykh
chernozemakh Kurskoy zonal'noy opytno-meliorativnoy
stantsii i izmenenii ikh svoystv pri oroshenii)

PERIODICAL: V sb: Orosheniye s.-kh. kul'tur v Tsentr.-chernozem.
polose RSFSR Vol 2, Moscow, AN SSSR, 1956, pp 5-20

ABSTRACT: The Kursk Regional Reclamation Experimental Station
is located 50 km from Kursk on a high terrace of the
Reut River at an altitude of 160 m to 200 m above
sea level. The terrace is composed of loess-type
carbonaceous unconsolidated clays of low density and
high porosity and permeability. Ground waters lie

Card 1/2

RÖDE, A.A.

✓ Röde, A. A., Opyt osvoenija tsellnykh zemel' v polupustynne Prikaspiskoj Nizmennosti.
[Experiment of utilization of virgin soils in the semidesert of the Transcasian Lowland.]
Priroda, Moscow, 44(1):60-66, Jan. 1955. 7 figs. DLC—A description of the climate of the
Transcasian region giving silent meteorological data and a graph showing the annual varia-
tion of air temperature and relative humidity, of the relict, soil and vegetation cover, of the
soil moisture supply from snow and the distribution of soil moisture. Subject Headings:
1. Soil microclimatology 2. Climate of Transcasian Region 3. Soil moisture 4. Trans-
casian Region, U.S.S.R.—I.L.D.

RODE, A.A.

Some data on soils of the Kursk Zonal Experimental Land Improvement
Station. Trudy Pochv. inst. 50:124-131 '57. (MLRA 10:4)
(Kursk Province--Soils)

RODE, A.A.

"Capillary diffusion of water in soil and the depth distribution
of soil moisture in cultivated and uncultivated soils" by
M. Hallaire. Reviewed by A.A. Rode). Pochvovedenie no. 6:123-125
Je '57. (MLRA 10:9)

(Soil moisture) (Hallaire, M.)

RODE, A.A.

Soil hydrology in the U.S.S.R. Pochvovedenie no.10:1-15 O '57.
(MIRA 10:12)

1. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR.
(Soil moisture)

RODE, A.A.

Organizing the work in soil nomenclature, systematics, and
classification. Pochvovedenie no.9:89-95 S '57. (MIRA 10:12)

1. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR.
(Soils--Classification)

USSR/Soil Science - Physical and Chemical Properties of Soil.

J

Abs Jour : Ref Zhur Biol., No 19, 1958, 86734

Author : Rode, A.A.

Inst : -

Title : Development of the Study of Soil Moisture in USSR

Orig Pub : Pochvovedeniye, 1957, No 10, 1-15

Abstract : A brief exposition is given of the development of the study of soil moisture in the prerevolutionary period, starting with the works of Vysotskiy, Bliznin and Izmail'skiy. Noted in the prerevolutionary period is the substantial development of work on water conditions of soils, chiefly in connection with problems of drought control. Although there is a series of original studies on the water properties of soils, work in this field was less developed. The postrevolutionary period can be divided into two stages, the boundary between them being the beginning of the great five-year plans. Typical for the first stage is the

Card 1/2

- 23 -

J

USSR/Soil Science. - Soil Genesis and Geography.

Abs Jour : Ref Zhur Biol., No 19, 1958, 8669⁴

Author : Rode, A.A.

Inst : -

Title

: Problem of Organizing Work on the Nomenclature, Systematics and Classification of Soils (Discussion).

Orig Pub : Pochvovedeniye, 1957, No 9, 89-95

Abstract : The state of operational organization in the systematics, nomenclature and classification of soils is examined. Great disagreement in understanding one and the same terms reigns in the field of nomenclature. It is proposed that a glossary of terms be created that must be made a part of an explanatory dictionary in soil science as a whole. In order to improve soil diagnosis and make it more objective, it is essential that analytical data and various quantitative indices be utilized more widely and systematically.

Card 1/3

- 6 -

... some features as

Node A.A.

Country : USSR

Category : Soil Science. General Problems.

J

Att. Journ. : Ref. Zhur.-Biolgiya No. 11, 1958. №.48570

Author : Dzhanybekov, A.

Institute : International Soil Science Congress

Title : Scientific Foundations of Agricultural Appropriation of the Semi-Desert

Orig. Pub.: Sh.: Dokl. VI Mezhdunar. kongressu pochvovedov.
6-ya komissiya melior. pochv. M., 1956, 89-113*

Abstract : The results are presented of five year long experiments made by the Dzhanybek Station of the Academy of Sciences USSR on the agricultural utilization of the solonetz soil complexes of the Caspian semi-desert. As much as 80-90% of the flat surface of this territory is occupied by steppe solonetz soils which have adapted to

* (in French) pp. 113-126

Card: 1/6

Country : USSR
Category : Soil Science. General Problems.

J

Abs. Jour.: Ref. Zhur.-Biolgiya No. 11, 1958. No. 48570

Author :
Institute :
Title :

Orig. Pub.:

Abstract : elevations in the microrelief are replaced by light chestnut solonetz and dark leached soils in micro-depressions. The cation-exchange capacity of solonetz soil is 20-25 milliequivalents per 100 grams of soil, with exchangeable sodium taking up about 40% of capacity in the solonetz horizon and up to 70% capacity in the subsolonetz layers. The water soluble salt content in the solonetzes

Card: 2/6

1

Country : USSR
Category : Soil Science. General Problems.

J

1958. Leningrad, No. 11, 1958. №.48570

Institute :
Title :

Crit. Russ.:

1. The soils contain 1.5 to 3 % of the soil weight, and there are in addition considerable quantities of gypsum. The first subsoil zone horizon remains dry throughout the year, having about 11% moisture which is at the wilting point. Further down the moisture content rises, and at a depth of three meters it is up to the lowest moisture-holding capacity. The light-chestnut solonetz soils have similar salt and water regimes, in contrast to the salt-

Carab. 3/6

Country : USSR
Category : Soil Science. General Problems.

J

Pub. Date : Ref. Pub.-Biology No. 11, 1959. №.48570

Author :
Institute :
Title :

Orig. Pub.:

In 1956, the ravines, and tall-stalked annual plant belts should be planted. The third year after these improvement techniques were applied, the moisture intake in the soil had increased about four times on an overall average, and about 17 times in the solonetz soil, thus providing thorough drenching and stratification of the soil and ground mass, while lowering the horizon of maximum concentration of the water-soluble salts to five meters.

Series

5/6

RODE, A.A.

Five years of work at the Dzhanybek station of the Forestry
Institute of the Academy of Science of the U.S.S.R. Trudy Inst.
lesa 38:3-11 '58. (MIRA 11:10)
(Dzhanybek--Agricultural experiment stations)

HOLB, A.A.

Factors of soil formation and the soil formation process [with
summary in English]. Pochvovedenie no. 9:29-38 '58. (MIRA 11:10)

1. Pochvennyy institut imeni V.V. Dokuchayeva AN SSSR.
(Soil formation)

RODE, A. A., (Dr. Agricultural Sci.)

"Soil Moisture"

for this work the author was awarded the gold medal imeni V. V. Dokuchayev, by the Acad. Sci. USSR in 1957.

Priroda, No. 2, 1958, pp. 113-114

Rode A.A.

AUTHOR: None Given 30-2-33/49

TITLE: Awards of the Gold Medal and of Nominal Prizes (Prisuzhdeniye zolotoy medali i imennykh premiy)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1956, Nr 2, pp 95-95
(USSR)

ABSTRACT: By resolution of the Presidency of the AN USSR the Gold Medal imeni V. V. Dokuchayev was awarded to A. A. Rode, Doctor of Agricultural Sciences for his publication "The Soil Moisture". Nominal Prizes of 20000 roubles each were distributed as follows:

- 1) The award imeni D. I. Mendeleyev to the Corresponding Member of the AS USSR I. A. Kazarnovskiy and to the Candidate of Chemical Sciences G. P. Nikol'skiy (posthumously) for their publication "The Discovery and Investigation of the Ozonides of Alkaline Metals";
- 2) The award imeni M. V. Lomonosov for 1957 to a group of authors consisting of Ye. M. Lifshits, Doctor of Physical-Mathematical Sciences, B. V. Deryagin, Corresponding Member of the AN USSR, and I. I. Abrikosova, Candidate of Physical-Mathematical Sciences, for all their publications on the

Card 1/3

Awards of the Gold Medal and of Nominal Prizes

30-2-33/49

theoretical and experimental investigation of the molecular attraction between solid bodies;

3) The award imeni P. L. Chebyshev for 1957 to N. M. Korobov, Doctor of Physical-Mathematical Sciences for his publications: "Numbers With Limited Relations and Their Use in Problems of Diophantine Approximations", "On Perfectly Regular Distribution and Common Normal Numbers", "Approximate Calculation of Divisible Integrals by Means of the Numeral Theory Method";

4) The award imeni A. N. Bakha for 1957 to V. L. Kretovich, Doctor of Biological Sciences for his publication "The Foundations of Vegetable Biochemistry";

5) The award imeni I. I. Mechnikov for 1957 to M. A. Peshkov, Doctor of Biological Sciences for his publication "Cytology of Bacteria";

6) The award imeni V. L. Komarov for 1957 to a group of authors consisting of A. A. Fedorov, Doctor of Biological Sciences, M. E. Kirpichnikov, Candidate of Biological Sciences, and Z. T. Artyushenko, Candidate of Biological Sciences for their publication "Atlas of the Descriptive Morphology of Higher Vegetables. The Leaf.";

7) The award imeni I. P. Pavlov for 1957 to A. I. Karamyan, Doctor of Medical Sciences for his publication "Evolution of

Card 2/3

Awards of the Gold Medal and of Nominal Prizes

30-2-33/49

the Functions of the Cerebrum of the Cerebellum";
8) The award imeni P. P. Anosov for 1957 to A. I. Skakov,
Doctor of Technical Sciences (posthumously) for his publi-
cation "The Quality of Railroad Rails".

AVAILABLE: Library of Congress

1. Scientific personnel-Awards-USSR
2. Awards-USSR
3. Scientific research-Awards-USSR

Card 3/3

RODE, A.A.

Concept of the hydromorphic factor of soils as applied in
the classification of hydromorphic soils of steppe, arid
steppe and semidesert zones. Pochvovedenie no.10:1-13
0 '59. (MIRA 13:2)

1. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR.
(Soil moisture) (Soils--Classification)

POPOV, L.V.; RODE, A.A., doktor biol.nauk, prof., ch.v.red.; PAVLOV, A.N.,
red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Methods of determining soil moisture]. Metody opredeleniya vlaghnosti
pochv. Moskva, Izd-vo Akad. nauk SSSR, 1960. 95 p. (Akademija nauk
SSSR. Vostochno-Sibirskii filial, Irkutsk. Trudy, no.31).

(MIRA 13:12)

(SOIL MOISTURE)

RODE, A. A.

How not to use analytic data in the study of soil genesis. Pochvo-
vedenie no.11:115-116 M '60. (MIREA 13:11)
(Soil research)

RODE, A.A.

Answer to N.H.Belyshev. Pochvovedenie no.9:113 S '60.(MIRA 13:9)
(Soil formation)

RODE, A.A.; YARILOVA, Ye.A.; RASHEVSKAYA, I.M.

Genetic characteristics of the dark-colored soils of large
depressions. Pochvovedenie no.8:1-13 Ag '60.
(MIRA 13:8)

1. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk
SSSR.
(Soils)

ANTIPOV-KARATAYEV, I.N., akademik, otv.red.; TYURIN, I.V., glavnnyy red.; GORBUNOV, N.I., red.; VERIGINA, K.V., red.; ZONN, S.V., red.; IVANOVA, Ye.N., red.; KEDROV-ZIKHMAN, O.K., red.; KONONOVA, M.M., red.; LOBOVA, Ye.V., red.; MISHUSTIN, Ye.N., red.; RODE, A.A., red.; ROZANOV, A.N., red.; SOKOLOV, A.V., red.; FRIDLAND, V.M., red.; SHUVALOV, S.A., red.; YEFIMOV, A.L., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Reports of Soviet soil scientists to the 7th International Congress in the U.S.A.] Doklady sovetskikh pochvovedov k VII Mezhdunarodnomu kongressu v SShA. Moskva, Izd-vo Akad.nauk SSSR, 1960. 487 p.

(MIRA 13:10)

1. International Congress of Soil Science. 7th. 2. AN Tadzhik-skoy SSR (for Antipov-Karatayev). 3. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR, Moskva (for Antipov-Karatayev, Gorbunov, (Continued on next card)

ANTIPOV-KARATAYEV, I.N.---(continued) Card 2.

Ivanova,,Kononova, Rozanov,,Fridland, Sokolov). 4. Laboratoriya
lesovedeniya Akademii nauk SSSR, Moskva (for Zonn). 5. Vsesoyuznyy
nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya
Vsesoyuznoy ordena Lenina Akademii sel'skokhoz.nauk imeni V.I.Lenina
i Institut zemledeliya akademii sel'skokhoz.nauk Belorusskoy SSR (for
Kedrov-Zikhman). 6. Institut mikrobiologii Akademii nauk SSSR, Moskva
(for Mishustin). 7. Nauchnyy institut po udobreniyam i insektofungi-
tsidam im. Ya.V.Samoylova, Moskva (for Sokolov).

(Soil research)

DINESMAN, Lev Georgiyevich; RODE, A.A., prof., doktor sel'skokhoz.nauk.
otv.red.; REMEZOVА, G.L., red.izd-va

[Changes in the nature of the northwestern part of the Caspian
Depression] Izmenenie prirody severo-zapada Prikaspiskoi
nizmennosti. Moskva, Izd-vo Akad.nauk SSSR, 1960. 158 p.
(MIRA 13:8)

(Caspian Depression--Botany--Ecology)
(Caspian Depression--Zoology--Ecology)

RODE, A.A.

Soil investigations in the Central Chernozem Preserve. Trudy TSentr.-
Chern. gos. zap. no.6:29-35 '60. (MIRA 16:8)
(Central Chernozem Preserve--Soil research)

RODE, A.A.; TYURIN, I.V., akademik, otv.red.; PAVLOV, A.N., red.izd-va;
GOLUB', S.P., tekhn.red.

[Methods for studying the water balance of soils] Metody
izuchenija vodnogo rezhima pochv. Moskva, Izd-vo Akad.nauk
SSSR, 1960. 242 p.
(Soil moisture)

KARANDINA, S.N.; RODE, A.A., prof., doktor geologo-miner. nauk, otv. red.; PAVLOV, A.N., red. izd-va; ROMANOV, G.N., tekhn. red.

[Pure plantations in large troughs of the Caspian Lowland]
Chistyie kul'tury drevesnykh porod na bol'shikh padinakh Pri-kaspiiskoi nizmennosti. Moskva, Izd-vo Akad. nauk SSSR, 1961.
177 p. (MIRA 15:1)

I. Akademiya nauk SSSR. Laboratoriya lesovedeniya.
(Caspian Lowland—Afforestation)

BOL'SHAKOV, A.F.; YEGOROV, V.V.; RODE, A.A.

Possibility of irrigation organization in the trans-Volga region.
Pochvovedenie no.2:1-9 F '64. (MIRA 17:3)

1. Pochvennyy institut imeni V.V.Dokuchayeva AN SSSR.

BOL'SHAKOV, A.F.; RODE, A.A., prof., otv. red.; ANTSELOVICH, M.Ye., red.
izd-va; ASTAF'YEVA, G.A., tekhn. red.

[Moisture conditions of thick Chernozems in the Central Russian
Upland] Vodnyi rezhim moshchnykh chernozemov Sredne-Russkoi vozvy-
shennosti. Moskva, Izd-vo Akad. nauk SSSR, 1961. 198 p.

(MIRA 14:6)

1.Zaveduyushchiy laboratoriey hidrologii pochv Pochvennogo instituta
AN SSSR (for Rode)
(Central Black Earth Region--Soil moisture)

SKRYNNIKOVA, Irina Nikolayevna; RODE, A.A., prof., ctv. red.;
ANTSELOVICH, M.Ye., red. izd-va; GOLUB', S.P., tekhn. red.

[Soil processes in cultivated peat lands; as exemplified by the
cultivated ashy peat soils in the Yakhroma River Valley] Poch-
vennye protsessy v okul'turennykh torfianykh pochvakh; na pri-
mere issledovani i okul'turennykh mnogozol'nykh torfianykh pochv
doliny r. IAkhromy. Moskva, Izd-vo Akad.nauk SSSR, 1961. 246 p.
(MIRA 15:1)

(Yakhroma Valley--Peat soils)

RODE, A.A.

Problems pertaining to the "hydro-physical constant" of soil.
Pochvovedenie no.6:26-38 Je '61. (MIRA 14:6)
(Soil moisture)

RODE, A.A.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014
Main results of ten-year research at the Dzhanybek Permanent Field
Station. Pochvovedenie No.4:17-29 Ap
(West Kazakhstan Province—Soils)
(West Kazakhstan Province—Windbreaks, shelterbelts, etc.)

RODE, A.A., prof.; POL'SKIY, M.N.

Soils of the Dzhanybek Permanent Field Station, their morphological
structure mechanical and chemical composition and physical
properties. Trudy Pochv. inst. 56:3-214 '61. (MIRA 14:3)
(Dzhanybek District--Soils)

ERPERT, Sof'ya Davydovna; RODE, A.A., prof., doktor geol.-miner. nauk,
otv. red.; MUSATOVA, A.Ya., red. izd-va; GRIGOR'YEVA, K.I.,
tekhn. red.

[Growth and water requirements of the dwarf elm under various
conditions of protection in the northwestern Caspian Sea
region] Rost i vlagopotreblenie viaza melkolistnogo v uslo-
viiakh razlichnoi blagoobespechennosti v Severo-Zapadnom Pri-
kaspii. Moskva, Izd-vo Akad. nauk SSSR, 1962. 62 p.
(MIRA 16:4)

(Caspian Sea region--Elm--Water requirements)

TYURIN, I.V., akademik, glav. red.; ZONN, S.V., prof., otv. red.;
ALEKSANDROVA, L.N., red.; ANTIPOV-KARATAYEV, I.N., red.;
VERNANDER, N.V., red.; VOLOBUYEV, V.R., red.; DARASELIYA, M.K.,
red.; IVANOVA, Ye.N., red.; KACHINSKIY, N.A., red.; KONONOVA, M.M.
red.; NOGINA, N.A., red.; RODE, A.A., red.; SOBOLEV, S.S., red.;
SOKOLOV, A.V., red.; MARKOV, V.Ya., red. izd-va; ASTAF'YEVA, G.A.,
tekhn. red.

[Problems of soil research] Problemy pochvovedeniya. Moskva,
(MIRA 15:7)
Izd-vo Akad. nauk SSSR, 1962. 287 p.

1. Vsesoyuznoye obshchestvo pochvovedov. 2. Prezident Vsesoyuznogo
obshchestva pochvovedov (for Tyurin).
(Soil research)

VYSOTSKIY, Georgiy Nikolayevich; ZAVARITSKIY, V.N., kand. geologo-miner. nauk; TYUPIN, I.V., akademik, otv. red.[deceased]; RODE, A.A., prof., otv. red.; SPRYGINA, L.I., red. izd-va; PRUSAKOVA, T.A., tekhn. red.

[Selected works] Izbrannye sochineniya. Moskva, Izd-vo Akad. nauk SSSR. Vol.2. [Studies on soils and soil moisture] Pochvennye i pochvenno-gidrologicheskie raboty. 1962. 398 p.

(MIRA 16:2)

(Soils) (Soil moisture)